

A4

Yet another aspect of the present invention is an apparatus for providing information by speech, comprising:

Please replace the paragraph beginning at page 7, line 12:

A5

Still yet another aspect of the present invention is an apparatus for providing information by speech, comprising:

Please replace the paragraph beginning at page 8, line 14:

A6

A further aspect of the present invention is an apparatus for providing information by speech according to 4th or 5th inventions, wherein said predetermined criterion is selection of a word of the first language occurring in the relation information.

Please replace the paragraph beginning at page 8, line 19:

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A still further aspect of the present invention is an apparatus for providing information by speech, comprising:

Please replace the paragraph beginning at page 9, line 11:

A8

A yet further aspect of the present invention is an apparatus for providing information by speech, comprising:

Please replace the paragraph beginning at page 10, line 7:

A9

A still yet further aspect of the present invention is an apparatus for providing information by speech, comprising:

Please replace the paragraph beginning at page 11, line 2:

A10

An additional aspect of the present invention is an apparatus for providing information by speech, wherein said predetermined criterion is selection of a word occurring in the relation information.

Please replace the paragraph beginning at page 11, line 6:

A11

A still additional aspect of the present invention is an apparatus for providing information by speech, comprising:

Please replace the paragraph beginning at page 11, line 22:

A12 A yet additional aspect of the present invention is an apparatus for providing information by speech, wherein when replacing the standard words of the selected standard sentence pattern with the words, said analyzing means leaves, of the standard words of the selected standard sentence pattern, standard words not corresponding to the words as they are, or replaces the standard words not corresponding to the words with predetermined words.

Please replace the paragraph beginning at page 12, line 6:

A13 A still yet additional aspect of the present invention is an apparatus for providing information by speech according to any of 1st to 11th inventions, wherein all or some of the prepared standard sentence patterns are each associated with a predetermined operation and/or image data.

Please replace the paragraph beginning at page 12, line 11:

A14 A supplementary aspect of the present invention is an apparatus for providing information by speech, wherein all or some of the prepared standard sentence patterns are each associated with a predetermined operation, and when selecting or identifying the standard sentence pattern, said analyzing means also identifies the operation corresponding to the standard sentence pattern, and the identified operation is performed when said speech synthesizing means outputs a result of the speech synthesis.

Please replace the paragraph beginning at page 12, line 20:

A15 A still supplementary aspect of the present invention is an apparatus for providing information by speech, wherein all or some of the prepared standard sentence patterns are each associated with a predetermined image, and when selecting or identifying the standard sentence pattern, said analyzing means also identifies the image corresponding to the standard sentence pattern, and the identified image is displayed when said speech synthesizing means outputs a result of the speech synthesis.

Please replace the paragraph beginning at page 13, line 4:

A16 A yet supplementary aspect the present invention is an apparatus for

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providing information by speech, comprising signal processing means of analyzing an input signal and generating one word or a plurality of words in accordance with a result of the analysis,

Please replace the paragraph beginning at page 13, line 10:

A17
A still yet supplementary aspect of the present invention is an apparatus for providing information by speech according to 16th invention, wherein said input signal is at least one of a speech, a sound, an image, a vibration, an acceleration, a temperature and a tension.

Please replace the paragraph beginning at page 13, line 15:

A18
One aspect of the present invention is an apparatus for providing information by speech, wherein said input signal is at least a speech, and said signal processing means performs speech recognition of the input speech and generates one word or a plurality of words in accordance with a result of the speech recognition.

Please replace the paragraph beginning at page 13, line 21:

A19
Another aspect of the present invention is an apparatus for providing information by speech, wherein said input signal is at least a sound, and said signal processing means recognizes a sound source of the input sound and generates one word or a plurality of words in accordance with a result of the sound source recognition.

Please replace the paragraph beginning at page 14, line 2:

A20
Still another aspect of the present invention is an apparatus for providing information by speech, wherein said input signal is at least an image, and said signal processing means analyzes the input image and generates one word or a plurality of words in accordance with a result of the analysis.

Please replace the paragraph beginning at page 14, line 7:

A21
Yet another aspect of the present invention is an apparatus for providing information by speech, wherein there is a possibility that the input sentence is incomplete.

[Please replace the paragraph beginning at page 14, line 11:]

Still yet another aspect of the present invention is an apparatus for providing information by speech, wherein that there is a possibility that the input sentence is incomplete is a case where there is a possibility that all or a part of the input sentence is omitted, a case where there is a possibility that all or a part of the input sentence is replaced with an irrelevant sentence, or a case where there is a possibility that an irrelevant sentence is inserted in the input sentence.

[Please replace the paragraph beginning at page 14, line 19:]

A further aspect of the present invention is an apparatus for providing information by speech, wherein when said analyzing means fails in the selection of the standard sentence pattern because all of the input sentence is omitted or all of the input sentence is replaced with an irrelevant sentence, said speech synthesizing means does not perform the speech synthesis.

[Please replace the paragraph beginning at page 15, line 1:]

A still further aspect of the present invention is an apparatus for providing information by speech, wherein that there is a possibility that the input sentence is incomplete is a case where there is a possibility that the input sentence is a grammatically incomplete sentence including a colloquial expression, a case where there is a possibility that the input sentence is an enumeration of words, a case where the input sentence includes a literal error or an omitted word, or a case where there is a possibility that the input sentence is not a sentence but an expression comprising symbols and words.

[Please replace the paragraph beginning at page 15, line 11:]

A yet further aspect of the present invention is an apparatus for providing information by speech, wherein when the input sentence is a sentence generated as a result of a speech recognition result, that there is a possibility that the input sentence is incomplete is a case where there is a possibility that the speech recognition result includes a recognition error, or a case where there is a possibility that the speech recognition is a failure so that a recognition result corresponding to all or part of the input speech on which the speech recognition is performed is not output as the speech recognition result.

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[Please replace the paragraph beginning at page 15, line 22:]

A still yet further aspect of the present invention is an apparatus for providing information by speech, wherein said prosody information is a speech waveform obtained by recording a naturally generated speech of the standard sentence pattern assigned the prosody information.

[Please replace the paragraph beginning at page 16, line 2:]

An additional aspect of the present invention is an apparatus for providing information by speech according to any of 1st to 11th inventions, wherein said prosody information is information extracted from a naturally generated speech of the standard sentence pattern assigned the prosody information.

[Please replace the paragraph beginning at page 16, line 7:]

A still additional aspect of the present invention is an apparatus for providing information by speech, wherein said extracted information includes at least one of a fundamental frequency pattern, an intensity pattern, a phoneme duration pattern and a speech rate of the speech.

[Please replace the paragraph beginning at page 16, line 12:]

A yet additional aspect of the present invention is an apparatus for providing information by speech, wherein said prosody information is associated with at least one of the following conditions: a phoneme string; the number of morae, the number of syllables; an accent; a position in a sentence; presence or absence and a duration of an immediately preceding or succeeding pause; an accent type of an immediately preceding or succeeding accent phrase; prominence; a string of parts of speech; a clause attribute; and a dependency relation.

[Please replace the paragraph beginning at page 16, line 21:]

A still yet additional aspect of the present invention is an apparatus for providing information by speech, wherein said prosody information is stored in prosody generation units, and said prosody generation units are any of accent phrases, phrases, words and paragraphs.

[Please replace the paragraph beginning at page 17, line 1:]

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A supplementary aspect of the present invention is a method for providing information by speech, comprising the steps of:

Please replace the paragraph beginning at page 17, line 19:

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A still supplementary aspect of the present invention is a method for providing information by speech, comprising the steps of:

Please replace the paragraph beginning at page 18, line 7:

A23

A yet supplementary aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech according to 1st invention:

Please replace the paragraph beginning at page 18, line 23:

A24

A still yet supplementary aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

Please replace the paragraph beginning at page 19, line 11:

A25

One aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

Please replace the paragraph beginning at page 20, line 7:

A26

Another aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

Please replace the paragraph beginning at page 21, line 7:

A27

Still another aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

Please replace the paragraph beginning at page 21, line 22:

128 Yet another aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

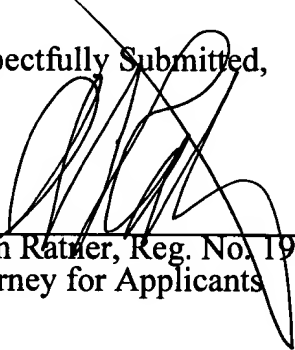
Please replace the paragraph beginning at page 22, line 16:

129 Still yet another aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

Please replace the paragraph beginning at page 23, line 10:

130 A further aspect of the present invention is a program for causing a computer to function as all or some of the following means of the apparatus for providing information by speech:

Respectfully Submitted,


Allan Ratner, Reg. No. 19,717
Attorney for Applicants

AR/lm

Enclosure: Version With Markings Showing Changes Made

Dated: May 31, 2001

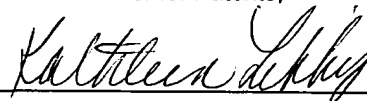
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